

RF TRANSMITTER HAVING IMPROVED OUT  
OF BAND ATTENUATION

ABSTRACT OF THE DISCLOSURE

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A radio frequency transmitter includes a digital baseband and coding module, an inverse fast Fourier transform (IFFT) module, a complex digital filter, a complex digital-to-analog converter and a radio frequency modulation module. The digital baseband and coding module is operably coupled to convert outbound data into outbound symbols in accordance with a baseband encoding protocol. The IFFT module is operably coupled to convert the outbound symbols into a complex time domain sample sequence. The complex digital filter is operably coupled to filter the complex time domain sequence such that signal strength of outbound RF signals in an exclusion RF band is at or below a specified signal strength with negligible attenuation on in-band signal strength.

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